

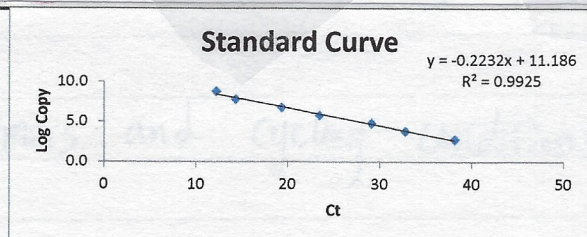
EXHIBIT B15

Part 3

β-actin Gene information

Gene of Interest	β-actin	Unit	Formula
1 Dalton = 1.66E-24	1.66E-24	g	
Mass of base pair	615	Da	
Avg. Mass/base	305.25	Da	
Length of entire	79	bases	
Mass in Daltons	2.41E+04	Da	= number bases x avg. mass/base
Mass in grams	4.00E-20	g	= mass in Da x mass of a Da in grams
Mass in ug	4.00E-14	ug	= above / 10E-6
Mass in ng	4.00E-11	ng/copy	= above x 10E3

Copy #	Ct	Log Copy #
610000000	12.29	8.8
61000000	13.15	7.8
6099999.5	16.12	6.8
610000	20.69	5.8
61000	24.74	4.8
6100	28.15	3.8
610	31.71	2.8



Oligonucleotide primers and cycling condition

Accession Number	Gene	Sense (5'-3')	Antisense (3'-5')	Amplicon (bp)	Annealing Time (sec) and Temperature (°C)
NM_001101	β -actin	ATGACTTAGTTGCGTTACAC	AATAAAGCCATGCCAATCTC	79	10, 64
NM_001752	CAT	GGTTGAACAGATAGCCTTC	CGGTGAGTGTCAGGATAG	105	10, 63
NM_000637	GSR	TCACCAAGTCCCATATAGAAATC	TGTGGCGATCAGGATGTG	116	10, 63
NM_000581	GPX1	GGACTACACCCAGATGAAC	TTCTCCTGATGCCCAAAC	96	10, 61
NM_000852	GSTp1	TACCAGTCCAATACCATC	GTAGATGAGGGAGATGTA	138	10, 57
NM_000250	MPO	CACTTGTATCCTCTGGTTCTTCAT	TCTATATGCTTCTCACGCCTAGTA	79	60, 63
NM_000625	NOS2	GAGGACCACATCTACCAGGAGGAG	CCAGGCAGGCGGGAATAGG	89	30, 59
NM_003102	SOD3	GTGTTCTGCTGCTGCTCCT	TCCGCCGAGTCAGAGTTG	84	60, 64

An initial cycle was performed at 95°C followed by 35 cycles of denaturation at 95°C for 15 seconds, annealing temperature and time per the table, followed by extension cycle at 72°C for 30 seconds.

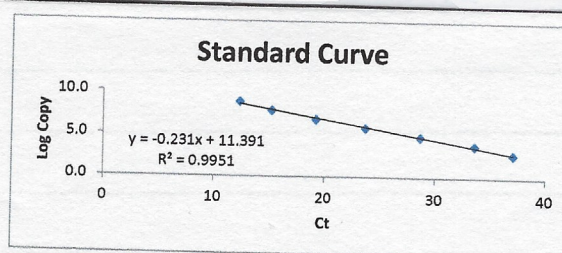
10/13/2017

Run Real-time PCR - GSR with standard & samples

Gene of Interest	GSR	Unit	Formula
1 Dalton = 1.66E-24	1.66E-24	g	
Mass of base pair	615	Da	
Avg. Mass/base	305.25	Da	
Length of entire	103	bases	
Mass in Daltons	3.14E+04	Da	= number bases x avg. mass/base
Mass in grams	5.22E-20	g	= mass in Da x mass of a Da in grams
Mass in ug	5.22E-14	ug	= above / 10E-6
Mass in ng	5.22E-11	ng/copy	= above x 10E3

Gene information

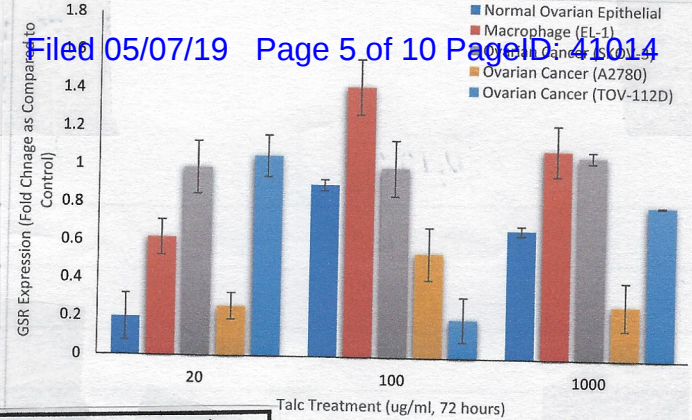
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6070000	16.12	6.8
607000	20.69	5.8
60700	24.74	4.8
6070	28.15	3.8
607	31.71	2.8



Standard Curve

Data

Normal Ov Epithelial Cells	fg/ul cDNA	Fold Change	Average	SD	p val
Normal Ov Epithelial -Control	4.46428128	4.252409179			
	4.040537078				
	5.649374711				
Normal Ov Epithelial 20 ug/ml Talc	3.436513604	-0.191866667	0.200031	0.122962	0.3818
	4.733285555	0.11308328			
	5.472758654	0.286978375			
Normal Ov Epithelial 100 ug/ml Talc	8.010433347	0.883740019	0.904084	0.028771	0.0493
	8.183455957	0.924428156			
	6.552998884	0.541008545			
Normal Ov Epithelial 1000 ug/ml Talc	7.045842037	0.656905942	0.674378	0.02471	0.0633
	7.629372716	0.794129491			
	7.194442969	0.691851058			
EL-1 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
EL1 Control DMSO (5 ug/ml volume)	57.54265341	56.14675379			
	56.08810465				
	54.80950331				
EL1 20 ug/ml Talc	94.65256367	0.685806521	0.619541	0.093714	0.05
	103.7557756	0.847938992			
	87.21138337	0.553275612			
EL1 100 ug/ml Talc	130.0248721	1.315803912	1.418008	0.144539	0.05
	117.4033866	1.09100934			
	141.5017433	1.520212368			
EL1 1000 ug/ml Talc	125	1.226308585	1.095698	0.133677	0.0042
	110	0.959151555			
	118	1.101635305			



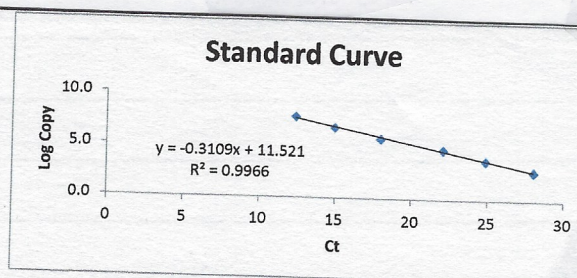
SKOV-3 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
SKOV control for 20 ug/ml Talc	114.1745767	120.5460773			
	127.061285				
	120.4023703				
SKOV-3 Control for 100 ug/ml Talc	101.1965313	103.1239404			
	105.0513496				
	74.08540446				
SKOV-3 20 ug/ml	193.1882215	0.602608942	0.988734	0.138282	0.0825
	227.9470905	0.890954028			
	251.5211034	1.08651421			
SKOV-3 100 ug/ml	228.5877349	1.216631114	0.993998	0.146443	0.043
	216.3075686	1.09754949			
	194.9503956	0.890447502			
SKOV-3 control for 1000 ug/ml Talc	8.767536762	8.745966216			
	12.50147198				
	8.72439567				
SKOV-3 1000 ug/ml Talc	18.23385621	1.084830396	1.063699	0.029884	0.0112
	11.80474342	0.349735768			
	17.86422909	1.042567813			
A2780 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
A2780 control for 20 ug/ml Talc	140.1662906	131.4102463			
	133.6702915				
	129.1502011				
A2780 Control for 100 ug/ml Talc	59.80237268	58.6912448			
	59.17958401				
	57.09177772				
A2780 20 ug/ml	217.2079848	0.652899914	0.26082	0.068898	0.0766
	172.0867487	0.309538286			
	159.2825972	0.212101808			
A2780 100 ug/ml	96.49799078	0.644163301	0.546833	0.137646	0.1088
	85.07310653	0.449502508			
	114.628098	0.953069805			
A2780 control for 1000 ug/ml Talc	3.268388429	5.483649208			
	7.698909987				
	0.370810318				
A2780 1000 ug/ml Talc	5.048597924	-0.079336089	0.282275	0.124705	0.5365
	6.547999324	0.194095223			
	7.515090464	0.370454269			
TOV112 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
TOV112 Control for 20 ug/ml Talc	72.41291598	72.18860045			
	71.52391916				
	72.62896621				
TOV112 20 ug/ml Talc	155.3169283	1.151543697	1.051945	0.108838	0.0035
	139.7405248	0.935769968			
	149.3235813	1.068520242			
TOV112 control for 100 talc	5.996678626	7.837259573			
	7.53579081				
	9.979309283				
TOV112 100 ug/ml Talc	10.08078007	0.286263391	0.203338	0.117274	0.4114
	8.78096925	0.120413222			
	7.925913775	0.011311888			
TOV112 Control for 1000 tov	7.753431026	7.785682592			
	7.825356753				
	7.778259997				
TOV112D 1000 Talc 48 hr	14.05672982	0.805458886	0.806772	0.001857	0.0026
	14.07717885	0.808085378			
	15.01294095	0.928275494			

10/16/2017
Run Real-time PCR - iNOS with standard & samples

Gene information

Gene of Interest	iNOS	Unit	Formula
1 Dalton = 1.66E-24	1.66E-24	g	
Mass of base pair	615	Da	
Avg. Mass/base	305.25	Da	
Length of entire	89	bases	
Mass in Daltons	2.72E+04	Da	= number bases x avg. mass/base
Mass in grams	4.51E-20	g	= mass in Da x mass of a Da in grams
Mass in ug	4.51E-14	ug	= above / 10E-6
Mass in ng	4.51E-11	ng/copy	= above x 10E3

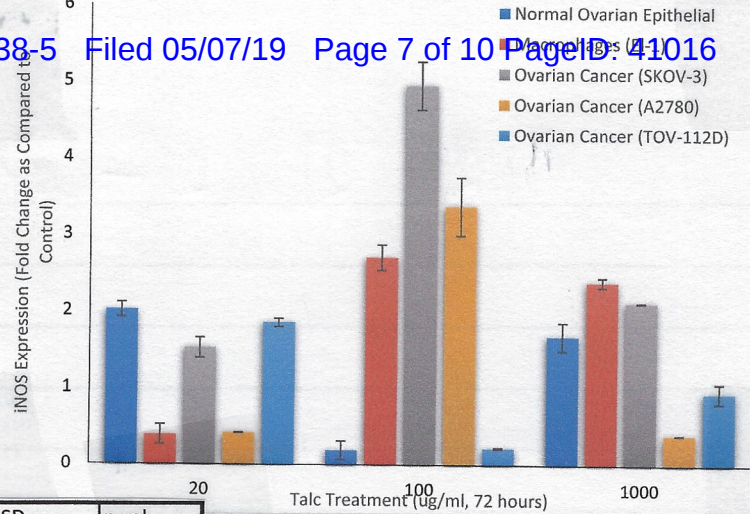
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6150000	13.15	6.8
615000	16.12	5.8
61500	20.69	4.8
6150	24.74	3.8
615	28.15	2.8



Standard Curve

Normal Ov Epithelial Cells	fg/ul cDNA	Fold Change	Average	SD	p val
Normal Ov Epithelial -Control for 1000	0.024815	0.023762852			
	0.241742				
	0.022711				
Normal Ov Epithelial -Control for 20 100	0.126806	0.183761711			
	0.093339				
	0.240718				
Normal Ov Epithelial 20 ug/ml Talc	0.119802	4.041569265	2.018802	0.095183	0.0351
	0.070136	1.951497602			
	0.073335	2.086107216			
Normal Ov Epithelial 100 ug/ml Talc	0.234882	0.278189205	0.191452	0.122665	ns
	0.152123	-0.172171608			
	0.203004	0.10471476			
Normal Ov Epithelial 1000 ug/ml Talc	0.0606	1.550198328	1.677861	0.180542	0.065
	0.076926	2.237232983			
	0.066667	1.805523796			
EL-1 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
EL1 Control DMSO for 20 ug/ml	0.031913	0.032005997			
	0.033565				
	0.032099				
EL1 Control DMSO for 100 ug/ml	0.092988	0.109375796			
	0.131096				
	0.125764				
EL1 20 ug/ml Talc	0.041749	0.304399045	0.395871	0.129361	0.11
	0.047604	0.487343726			
	0.164327	4.134252728			
EL1 100 ug/ml Talc	0.392141	2.585260966	2.702807	0.166235	0.0135
	0.417854	2.820352453			
	0.029852	-0.72706732			
EL-1 1000 control	0.867264	0.946591901			
	0.881998				
	1.02592				
EL-1 1000 ug/ml Talc	3.243944	2.426971659	2.382584	0.062774	0.0135
	3.159909	2.338196032			
	1.96581	1.076724206			

Data



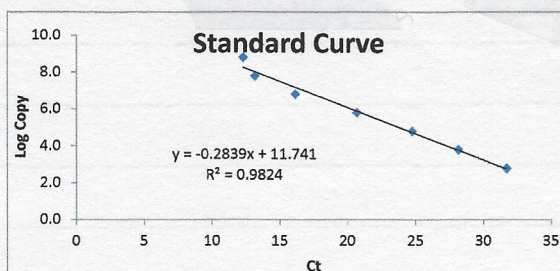
SKOV-3 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
SKOV control for 20 ug/ml Talc	0.018948	0.01936476			
	0.015705				
	0.019781				
SKOV-3 Control for 100 ug/ml Talc	0.013424	0.011345283			
	0.015051				
	0.009267				
SKOV-3 20 ug/ml	0.047144	1.434516565	1.52669	0.130353	0.0294
	0.050714	1.618863155			
	0.144431	6.458419298			
SKOV-3 100 ug/ml	0.06	4.288541523	4.949609	0.31163	0.05
	0.065	4.729253316			
	0.07	5.16996511			
SKOV-3 control for 1000 ug/ml Talc	1.369745	1.01247397			
	1.137957				
	0.655203				
SKOV-3 1000 ug/ml Talc	2.310336	1.281871867	2.117303	0.003559	0.0396
	3.15364	2.114786159			
	3.158736	2.119819883			
A2780 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
A2780 control for 20 ug/ml Talc	0.094243	0.079147127			
	0.068008				
	0.064051				
A2780 Control for 100 ug/ml Talc	0.053171	0.051076582			
	0.048683				
	0.048982				
A2780 20 ug/ml	0.112398	0.420119005	0.424255	0.005849	0.0629
	0.118215	0.493609261			
	0.113053	0.428390528			
A2780 100 ug/ml	0.209538	3.102432407	3.368828	0.37674	0.05
	0.180167	2.527397018			
	0.236751	3.635223784			
A2780 control for 1000 ug/ml Talc	4.549583	4.548883598			
	3.933995				
	4.548184				
A2780 1000 ug/ml Talc	6.369001	0.400123916	0.40196	0.002597	0.0032
	6.385709	0.403796873			
	6.86353	0.508838338			
TOV112 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
TOV112 Control for 20 ug/ml Talc	0.058522	0.052902734			
	0.058744				
	0.047283				
TOV112 Control 1000 volume	0.062537	0.064595234			
	0.068004				
	0.063245				
TOV112 20 ug/ml Talc	0.159626	2.017356105	1.854482	0.054431	0.0133
	0.148974	1.815992924			
	0.153046	1.892970354			
TOV112 100 ug/ml Talc	0.064349	0.216369215	0.222484	0.008648	0.0224
	0.064996	0.228599616			
	0.046148	-0.127677239			
TOV112 Control for 1000	0.053966	0.05318876			
	0.04459				
	0.06101				
TOV112D 1000 ug/ml Talc	0.078515	0.476157328	0.947326	0.121924	0.1077
	0.09899	0.861112589			
	0.108161	1.03353966			

10/16/2017 Run RT-PCR - GPX with standard & samples

Gene of Interest	GPX	Unit	Formula
1 Dalton = 1.66E-24	1.66E-24	g	
Mass of base pair	615	Da	
Avg. Mass/base	305.25	Da	
Length of entire	96	bases	
Mass in Daltons	2.93E+04	Da	= number bases x avg. mass/base
Mass in grams	4.86E-20	g	= mass in Da x mass of a Da in grams
Mass in ug	4.86E-14	ug	= above / 10E-6
Mass in ng	4.86E-11	ng/copy	= above x 10E3

Gene information

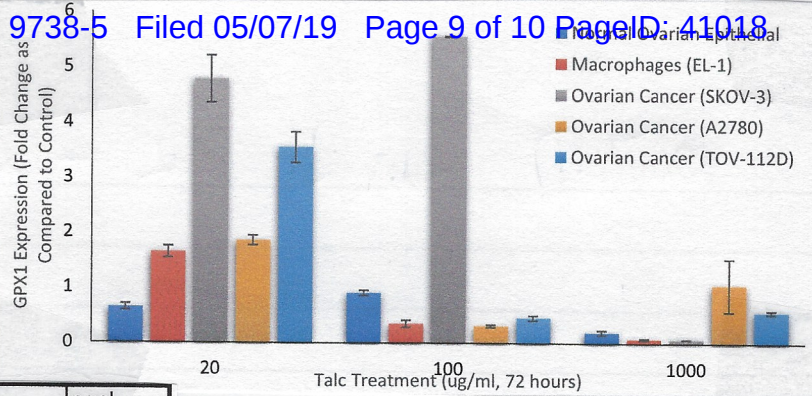
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60900000	13.15	7.8
6090000	16.12	6.8
609000	20.69	5.8
60900	24.74	4.8
6090	28.15	3.8
609	31.71	2.8



Standard Curve

Data

Normal Ov Epithelial Cells	fg/ul cDNA	Fold Chang	Average	SD	p val
Normal Ov Epithelial -Control for 1000	10.44452	12.39509			
	12.94154				
	13.79921				
Normal Ov Epithelial -Control for 20 100	12.52692	12.89282			
	13.25873				
	18.81577				
Normal Ov Epithelial 20 ug/ml Talc	25.05152	0.943059	0.640542	0.059069	0.0694
	21.68973	0.682311			
	20.61271	0.598774			
Normal Ov Epithelial 100 ug/ml Talc	24.93692	0.93417	0.902286	0.045092	0.0425
	24.11475	0.870401			
	21.4644	0.664833			
Normal Ov Epithelial 1000 ug/ml Talc	16.43495	0.325924	0.194533	0.042818	0.325
	15.18163	0.22481			
	14.43106	0.164256			
EL-1 Cells	fg/ul cDNA	Fold Chang	Average	SD	p val
EL1 Control DMSO for 20 ug/ml	26.43411	25.98751			
	24.94745				
	26.58098				
EL1 Control DMSO for 100/1000 ug/ml	26.2594	26.26166			
	26.03356				
	26.26393				
EL1 20 ug/ml Talc	66.79229	1.570168	1.644264	0.104787	0.0394
	70.6434	1.718359			
	77.07548	1.965866			
EL1 100 ug/ml Talc	36.51237	0.39033	0.345133	0.063918	0.0742
	46.80624	0.782303			
	34.13847	0.299935			
EL1 1000 regular	28.5	0.085232	0.075712	0.013463	0.0414
	28	0.066193			
	27	0.028115			



SKOV-3 Cells					
fg/ul cDNA	Fold Chang	Average	SD	p val	
SKOV control for 20 ug/ml Talc	6.817514	7.415123			
	7.716939				
	7.710917				
SKOV-3 Control for 100 ug/ml Talc	8.439988	8.412195			
	8.384401				
	8.053921				
SKOV-3 20 ug/ml	32.91981	3.439549	4.783855	0.421067	0.0315
	40.68022	4.486115			
	45.09577	5.081594			
SKOV-3 100 ug/ml	55.1	5.550015	5.555959	0.008406	0.0207
	52.1	5.19339			
	55.2	5.561902			
SKOV-3 control for 1000 ug/ml Talc	54.53351	52.15021			
	49.76691				
	39.85461				
SKOV-3 1000 ug/ml Talc	35.33473	-0.32244	0.070767	0.000524	ns
	55.82142	0.070397			
	55.86005	0.071138			
A2780 Cells					
fg/ul cDNA	Fold Chang	Average	SD	p val	
A2780 control for 20 ug/ml Talc	19.61021	20.77316			
	21.9361				
	16.44827				
A2780 Control for 100 ug/ml Talc	8.250935	8.317047			
	8.383159				
	6.165789				
A2780 20 ug/ml	23.21169	1.790857	1.854858	0.090511	0.0192
	24.27628	1.918858			
	21.72254	1.611809			
A2780 100 ug/ml	10.74368	0.291767	0.307519	0.022277	0.0162
	11.00571	0.323272			
	12.73299	0.530951			
A2780 control for 1000 ug/ml Talc	0.33411	0.215358			
	0.223734				
	0.206982				
A2780 1000 ug/ml Talc	0.368504	0.711124	1.047611	0.475865	0.291
	0.513434	1.384098			
	0.0282	-0.86906			
TOV112 Cells					
fg/ul cDNA	Fold Chang	Average	SD	p val	
TOV112 Control for 20 ug/ml Talc	15.60499	15.52105			
	16.04456				
	15.43712				
TOV112 Control 100 talc	5.87752	15.09463			
	14.00668				
	16.18258				
TOV112 20 ug/ml Talc	73.71172	3.749145	3.552248	0.278454	0.01
	67.59964	3.355352			
	59.39598	2.826801			
TOV112 100 ug/ml Talc	22.41454	0.484934	0.453197	0.044883	0.0465
	21.45642	0.42146			
	19.28461	0.27758			
TOV112 Control for 1000ug/ml Talc	4.893757	7.868342			
	7.055626				
	8.681058				
TOV112D 1000 Talc	14.70037	0.868293	0.56558	0.030965	0.1387
	12.49081	0.587476			
	12.14624	0.543684			

Gene of Interest	SOD3	Unit	
1 Dalton = 1.66E-24	1.66E-24	g	
Mass of base pair	615	Da	
Avg. Mass./base	305.25	Da	
Length of entire	85	bases	
Mass in Daltons	2.59E+04	Da	= number bases x avg. mass/base
Mass in grams	4.31E-20	g	= mass in Da x mass of a Da in grams
Mass in ug	4.31E-14	ug	= above / 10E-6
Mass in ng	4.31E-11	ng/copy	= above x 10E3

Standard Curve

Log Copy

$y = -0.2754x + 10.326$
 $R^2 = 0.9986$

Ct

Ct	Log Copy
13	6.5
17	5.5
20	4.5
24	3.5
27	2.5

Standard Curve

Data

Normal Ov Epithelial Cells	fg/ul cDNA	Fold Change	Average	SD	p val
Normal Ov Epithelial -Control for 1000	0.069583	0.060875247			
	0.102165				
	0.052168				
Normal Ov Epithelial -Control for 200 500	1.025561	0.635120216			
	0.679916				
	0.590325				
Normal Ov Epithelial 20 ug/ml Talc	0.749187	0.17959921	0.179165	0.000614	0.2374
	0.748636	0.178730864			
	0.803527	0.265158094			
Normal Ov Epithelial 100 ug/ml Talc	3.517144	4.537760335	2.831552	0.347194	0.05
	2.277572	2.586048719			
	2.589421	3.077055842			
Normal Ov Epithelial 1000 ug/ml Talc	0.082194	0.350206214	0.4135	0.089512	0.05
	0.116134	0.907744026			
	0.0899	0.476794623			
EL-1 Cells	fg/ul cDNA	Fold Change	Average	SD	p val
EL1 Control DMSO for 20 ug/ml	0.018405	0.01823182			
	0.017237				
	0.019054				
EL1 Control DMSO for 100/1000 ug/ml	0.110426	0.118911669			
	0.085674				
	0.127398				
EL1 20 ug/ml Talc	0.038627	1.118643876	1.137817	0.027115	0.0021
	0.0348	0.908736299			
	0.039326	1.156990307			
EL1 100 ug/ml Talc	0.254701	1.141934765	1.411269	0.380896	0.0887
	0.318755	1.680603474			
	0.380953	2.203659803			
EL1 1000 ug/ml Talc	0.26	1.186496936	1.147252	0.042327	0.0629
	0.25	1.1024009			
	0.256	1.152858521			